

Architectural Specification

Section 11 14 00 – Pedestrian Control Equipment (Gates/Turnstiles)

PART 1- GENERAL

1.01 SECTION INCLUDES

- A. Manufacturer's descriptive literature for MR100 Waist High Turnstile including components and accessories.
See product brochure.
- B. Shop drawings submitted upon request

1.02 RELATED SECTIONS

- A. 10450 – Pedestrian Control Devices
- B. Section 08400 - Entrances and Storefronts

1.03 Quality Assurance

- A. Manufacturer shall be a company specializing in the supply of security turnstiles with a minimum of 10 years experience

1.04 SUBMITTALS

- A. Manufacturer's descriptive literature for equipment specified including components and accessories.
See product brochure.
- B. Shop drawings submitted upon request.
- C. Manufacturer's instructions for assembly and installation.

1.05 DELIVERY, STORAGE AND HANDLING

- A. Store products of this section in manufacturer's unopened packaging until installation.
- B. Store off ground, under cover, protected from weather and construction activities

1.06 Project Site Conditions

- A. Install the MR100 on a solid, level floor

1.07 WARRANTY

- A. Hayward Turnstiles warrants its products against defects in material and workmanship for a period of one (1) year from the date of invoicing. The warranty covers defects in materials and workmanship and does not cover freight, labor, or incidental costs. Obtain full warranty terms from Hayward Turnstiles.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Acceptable Manufacturer:
Hayward Turnstiles Inc.
160-A Wampus Lane, Milford, CT USA 06460
Phone: 203-647-9147 Fax: 203-200-7866 Email: sales@haywardts.com
www.haywardturnstiles.com

2.02 PRODUCT

- A. **MR100 Waist High Security Turnstile:** no substitutions. Features of this turnstile shall include a self-centering mechanism to maintain rotor at the stop position with a removeable top cover for inspection and maintenance of internal mechanism.
- B. **Cabinet Dimensions:** Height 39"
Width 7"
Depth 28"
- C. **Pedestrian Clearance:** 18"

2.03 CONSTRUCTION

- A. **Mechanism:** The main mechanism components shall be precision cut by laser from corrosion resistant 304 stainless steel. A heavy-duty hydraulic damper shall be used to ensure smooth rotation of the turnstile arms and a soft return to the home position after every passage. The damper will have a service life of over 10 million cycles. All springs are to be rated for a long service life. All shafts to be made from stainless steel and surrounded by bearings or permanently lubricated, oil impregnated, bronze bushings.

- B. **Arm Assembly:** Consists of an anodized aluminum center hub precision machined to accept (3) 1.5" dia. 304 stainless steel arms. The arms are set at a position 120 degrees apart from one another.
- C. **Turnstile Cabinet :** Fabricated using 304 stainless steel with a brushed #4 finish. The MR100 utilizes a modular design consisting of a base cabinet, rectangular side panels and lid. This design allows for easier installation and hides all mounting hardware.
- D. **Turnstile Lid:** Formed from 16 gauge 304 stainless steel sheet. Corners are welded and polished to #4 finish.

2.04 EQUIPMENT

- A. **Mechanical turnstiles** utilize a ratchet assembly to direct traffic flow
- B. **Electric turnstiles** use a heavy-duty electro-mechanical ratchet and pawl operating mechanism to restrict traffic flow. All electrical controls are low voltage 24 VDC
- C. **Standard self-centering feature** - the turnstile shall self-center, automatically returning to the "home" position after rotation
- D. **Bearings** provide free, easy rotation even in hostile environments

2.05 FACTORY TESTING

- A. Product shall be tested at the factory prior to shipment
- B. Inspect product finishes and touch up prior to shipment

2.06 FINISH

- A. **Cabinet:** Cabinet components shall be made of 304 stainless steel with a brushed #4 finish.
- B. **Cover & Arms:** 304 stainless steel with a brushed #4 finish.

2.07 Available Options: MR100 turnstiles are available in clockwise, counterclockwise, or bi-directional passage.

- A. **Electronic Operation:** This option includes a 24 VDC pull solenoid and electronic interface PC board with timeout feature, capable of controlling traffic through an access control device (card reader, RFID, biometric reader, etc.). The timeout feature is used for automatic relocking of the turnstile if entry is not completed.
- B. **Timed Push Button:** Enclosed push button with timer
- C. **Battery Powered Counter:** Electronic six-digit, key resettable counter with LCD Display
- D. **Keyed Override:** Electric key switch that allows for you to lock/unlock the turnstile at will when unit has power
- E. **Out of service lock** (electric or manual units): Key Lock/Unlock turnstile mechanically
- F. **Indicator Lights:** Red and green indicator lights that are installed on the lid of the turnstile
- G. **Additional Options Available Upon Request**

PART 3 EXECUTION

3.01 SITE EXAMINATION

- A. **Inspection:** Installer must examine the installation location and advise the Contractor of any site conditions inconsistent with proper installation of the product. Turnstile must be installed on a solid, level floor
- B. **Installation:** Install turnstiles in accordance with manufacturer's instructions
- C. **Adjustment:** Installer shall adjust turnstiles for proper performance after installation

Note: this specification includes recommended options. Hayward Turnstiles, Inc. reserves the right to change this specification at any time without notice.